

ABSTRACT OF THE DISCLOSURE

OPTIMAL CONTROL OF WIDE CONVERSION RATIO SWITCHING CONVERTERS

5 A switch state controller generating a pulse train is used
in a power converter utilizing a plurality of converter stages
all simultaneously controlled by a single switch controlled by
said pulse train. On time of the pulse train is controlled
according to an input or interim node characteristic of the
10 supply and period is controlled by a characteristic of the
output of the converter. This allows development of AC-to-DC
converters, including power-factor-correction converters, and DC
to DC converters with high conversion ratio with minimal parts
count & high reliability.